BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PRE-MEASUREMENT

Name of work: Improvements to Drains at Hoysala Layout in Ward No. 7 Byatarayanapura.

Estimated Cost : Rs. 17.00 Lakhs

Job Code: 007-22-0000013

Head of Account : P3726 Zonal Public Works - POW Works

Name of Agency: Sri. Siddesha, No. 141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore - 560032.

BBMP/EE/BTP/WO/22/2022-23 Date: 22-04-2022.

Measurements Recarded on : 30/06/2022

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Unit
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum
	For RCC Drain								
	Hoysala Layout Cross Road E/S	1	15.00			1.00	1.00	15.00	
		1	15.00			1.00	1.00	15.00	
		1	15.00			1.00	1.00	15.00	
		1	15.00			1.00	1.00	15.00	
		1	15.00			1.00	1.00	15.00	
		1	15.00			1.00	1.00	15.00	
		1	15.00			1.00	1.00	15.00	
		1	15.00			1.00	1.00	15.00	
		1	15.00			1.00	1.00	15.00	
		1	15.00			1.00	1.00	15.00	
		1	15.00			1.00	1.00	15.00	
		1	3.80			1.00	1.00	3.80	
	3rd Cross Kuvempu Layout W/S	1	15.00			0.80	0.75	9.00	
		1	15.00			0.80	0.75	9.00	
		1	15.00			0.80	0.75	9.00	
		1	15.00			0.80	0.75	9.00	
		1	15.00			0.80	0.75	9.00	
		1	15.00			0.80	0.75	9.00	
		1	2.70			0.80	0.75	1.62	
							Total Qty =	224.42	
							Qty Limited to =	224.37	Cum

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Engineer
Ward No. 07

Siddesh

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
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BBMP, Bangalore

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Unit
	Measurment Recorded on:	02/07/2022							
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								Cum
	For RCC Drain Bottom Concrete								
	Hoysala Layout Cross Road E/S	1	15.00			0.90	0.15	2.03	
		1	15.00			0.90	0.15	2.03	
		1	15.00			0.90	0.15	2.03	
		1	15.00			0.90	0.15	2.03	
		1	15.00			0.90	0.15	2.03	
		1	15.00			0.90	0.15	2.03	
		1	15.00			0.90	0.15	2.03	
		1	15.00			0.90	0.15	2.03	
		1	15.00			0.90	0.15	2.03	
		1	15.00			0.90	0.15	2.03	
		1	15.00			0.90	0.15	2.03	
		1	15.00			0.90	0.15	2.03	
		1	3.80			0.90	0.15	0.51	
	3rd Cross Kuvempu Layout W/S	1	15.00			0.75	0.12	1.35	
		1	15.00			0.75	0.12	1.35	
		1	15.00			0.75	0.12	1.35	
		1	15.00			0.75	0.12	1.35	
		1	15.00			0.75	0.12	1.35	
		1	15.00			0.75	0.12	1.35	
		1	15.00			0.75	0.12	1.35	
		1	2.70			0.75	0.12	0.24	
							Total Qty =	31.13	
							Qty Limited to =	28.62	Cum

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BBMP, Bangalore

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Unit
	Measurment Recorded on:	08/07/2022							
4	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. TMT bars Fe 500								Tonne
				No of Rods	L of Bars	Mtrs	Kg/m	Kgs	
	U' Shape Rods								
	10 mm			848	2.20	1865.60	0.62	1156.67	
	Distribution Rods								
	8mm			17	168.80	2869.60	0.39	1119.14	
	U' Shape Rods								
	10 mm			468	1.60	748.80	0.62	464.26	
	Distribution Rods								
	8mm			10	92.70	927.00	0.39	361.53	
								3101.60	
								3.10	
								3.10	Tonne

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BBMP, Bangalore

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Unit
	Measurment Recorded on:	08/07/2022							
5	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for columns, pillars,post and struts, circular or curved in plan including cost of all materials, labour complete as per specifications								Sqm
	RCC Drain Centering								
	Hoysala Layout Cross Road E/S	4	15.00				0.60	36.00	
		4	15.00				0.60	36.00	
		4	15.00				0.60	36.00	
		4	15.00				0.60	36.00	
		4	15.00				0.60	36.00	
		4	15.00				0.60	36.00	
		4	15.00				0.60	36.00	
		4	15.00				0.60	36.00	
		4	15.00				0.75	45.00	
		4	15.00				0.75	45.00	
		4	15.00				0.75	45.00	
		4	3.80				0.75	11.40	
	3rd Cross Kuvempu Layout W/S								
		4	15.00				0.60	36.00	
		4	15.00				0.60	36.00	
		4	2.00				0.60	4.80	
								511.20	
					Qty Limited to =			**508.80**	Sqm

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BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements to Drains at Hoysala Layout in Ward No. 7 Byatarayanapura.

Estimated Cost : Rs. 17.00 Lakhs

Job Code: 007-22-0000013

Head of Account : P3726 Zonal Public Works - POW Works

Name of Agency: Sri. Siddesha, No. 141, 4th Main Road, Muniramanna Block, Ganganagar, Bangalore - 560032.

BBMP/EE/BTP/WO/22/2022-23 Date: 22-04-2022.

Measurements Recarded on : 11/07/2022

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum	
	Qty as per Pre-Measurement vide E-MB Page No. 01 is =							**224.37**	118.00	**26476.00**
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								Cum	
	Qty as per Pre-Measurement vide E-MB Page No. 02 is =							**28.62**	5078.00	**145332.00**
3	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications								Cum	
	For RCC Drain									
	Raft									
	Hoysala Layout Main Road E/S	1	15.00			0.80	0.15	1.80		
		1	15.00			0.80	0.15	1.80		
		1	15.00			0.80	0.15	1.80		
		1	15.00			0.80	0.15	1.80		
		1	15.00			0.80	0.15	1.80		
		1	15.00			0.80	0.15	1.80		
		1	15.00			0.80	0.15	1.80		
		1	15.00			0.80	0.15	1.80		
		1	15.00			0.80	0.15	1.80		
		1	15.00			0.80	0.15	1.80		
		1	15.00			0.80	0.15	1.80		
		1	3.80			0.80	0.15	0.46		
	3rd Cross Kuvempu Layout W/S									
		1	15.00			0.75	0.12	1.35		
		1	15.00			0.75	0.12	1.35		
		1	15.00			0.75	0.12	1.35		
		1	15.00			0.75	0.12	1.35		
		1	15.00			0.75	0.12	1.35		
		1	15.00			0.75	0.12	1.35		
		1	2.70			0.75	0.12	0.24		
	Side Wall									
	Hoysala Layout Main Road E/S	2	15.00			0.12	0.45	1.62		
		2	15.00			0.12	0.45	1.62		

Assistant Executive Engineer
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BBMP, Bangalore

31.84

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
		2	15.00			0.12	0.60	2.16		
		2	15.00			0.12	0.60	2.16		
		2	15.00			0.12	0.60	2.16		
		2	15.00			0.12	0.60	2.16		
		2	15.00			0.12	0.65	2.34		
		2	15.00			0.12	0.65	2.34		
		2	15.00			0.12	0.65	2.34		
		2	15.00			0.12	0.65	2.34		
		2	15.00			0.12	0.75	2.70		
		2	3.80			0.12	0.75	0.68		
	3rd Cross Kuvempu Layout W/S									
		2	15.00			0.12	0.45	1.62		
		2	15.00			0.12	0.45	1.62		
		2	15.00			0.12	0.45	1.62		
		2	15.00			0.12	0.45	1.62		
		2	15.00			0.12	0.45	1.62		
		2	15.00			0.12	0.45	1.62		
		2	2.70			0.12	0.45	0.29	31.39	
							Total Qty =	63.23		
							Qty Limited to =	62.01	5105.00	316561.00

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BBMP, Bangalore

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
	Measurment Recorded on: 19/07/2022									
4	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. TMT bars Fe 500								Tonne	
	Qty as per Pre-Measurement vide E-MB Page No. 03 is =							**3.10**	77912.00	**241527.00**
5	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for columns, pillars,post and struts, circular or curved in plan including cost of all materials, labour complete as per specifications								Sqm	
	Qty as per Pre-Measurement vide E-MB Page No. 04 is =							**508.80**	415.00	**211152.00**
6	Providing and fixing 10 cms thick pre cast RCC covering slab using reinforced cement concrete M20 using graded granite jelly 20 mm and down size with steel reinforcement including form work lift charges, curing and concrete finishied surfaces of both side etc complete as per specifications.								Sqm	
	Covering Slab									
	Hoysala Layout Main Road E/S	1	15.00			0.75		11.25		
		1	15.00			0.75		11.25		
		1	15.00			0.75		11.25		
		1	15.00			0.75		11.25		
		1	15.00			0.75		11.25		
		1	15.00			0.75		11.25		
		1	15.00			0.75		11.25		
		1	15.00			0.75		11.25		
		1	15.00			0.75		11.25		
		1	15.00			0.75		11.25		
		1	15.00			0.75		11.25		
		1	3.80			0.75		2.85		
	Hoysala Layout 3rd Cross Road, N/S	59	0.60			0.75		26.55		
	3rd Cross Kuvempu Layout W/S	14	0.60			0.75		6.30		
							Total Qty =	**159.45**		
							Qty Limited to =	**159.00**	2009.00	**319431.00**

Assistant Executive Engineer
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Executive Engineer, (BTP), BBMP

Assistant Engineer
Ward No. 07

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Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Rate / Unit	Amount
	Measurment Recorded on: 28/07/2022									
7	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								Cum	
	For RCC Drain									
	Ramp									
	Hoysala Layout Cross Road E/S	1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	3.80			0.15	0.15	0.09		
	3rd Cross Kuvempu Layout W/S									
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	15.00			0.15	0.15	0.34		
		1	2.70			0.15	0.15	0.06		
							Total Qty =	5.88		
							Qty Limited to =	4.77	5395.00	25734.00
8	Providi Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications								Cum	
	Qty Vide Item No. 01							224.37	81.00	18174.00
	Sub Total									1304387.00
	GST @ 12%									156526.00
									Total	1460913.00

Round off. 1460900/=

Executive Engineer, (BTP), BBMP. 28/7/22

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